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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/661,177	09/12/2003	Steven Carl Crusius	79287	8291
22242	7590	04/19/2007	EXAMINER	
FITCH EVEN TABIN AND FLANNERY			AMRANY, ADI	
120 SOUTH LA SALLE STREET			ART UNIT	
SUITE 1600			PAPER NUMBER	
CHICAGO, IL 60603-3406			2836	
SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONTHS	04/19/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

4/14

Office Action Summary	Application No.	Applicant(s)
	10/661,177	CRUSIUS ET AL.
	Examiner Adi Amrany	Art Unit 2836

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 06 March 2007.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 2-10 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 2-10 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date: _____
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date: _____	5) <input type="checkbox"/> Notice of Informal Patent Application 6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed March 6, 2007 in the Request for Continued Examination have been fully considered but they are not persuasive. The conduction path of the unidirectional isolation device is an inherent limitation. The isolation device is interpreted as a diode, which comprises two electrical lead lines in order to connect it to the rest of a circuit. These lead lines are a conduction path.

During normal operations, the DC voltage supply and battery are connected through switch S2. The Peplinski diode is arranged to direct excess current from the battery to the DC voltage supply line in order to bypass the charging circuit (210).

Applicants' attempt to distinguish claim 10 by reciting Peplinski's use of switches (S1-4) to transfer between normal and battery backup operations is not persuasive. During normal operations, switch S2 is set to connect the DC voltage supply and the battery. Thus, switch S2 completes the first conduction path. Applicants' arguments regarding switch configurations and power flow during ordinary operations versus power disruptions are drawn to unclaimed subject matter (see also Final Rejection, November 6, 2006, last paragraph of page 2).

Regarding claims 4 and 9, applicants have only argued the limitation analysis of independent claim 10, and have not challenged the actual obviousness rejections made in these claims.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 2-3, 5-8 and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Peplinski (US 2003/0063715). Claim 10 is the only independent claim.

With respect to claim 10, Peplinski discloses a battery backup apparatus (figure 2; paragraph 23) for use with a barrier movement operator (figure 2, item 106; paragraph 19), comprising:

 a DC voltage supply (figure 6, output of item 204; paragraph 21, lines 1-6; paragraph 41;

 a DC power connection from the DC voltage supply to a barrier movement control (figure 2, item 43; paragraph 20, lines 12-17);

 a battery having a first and second terminals (figure 6b, item B1; page 4, paragraph 36);

 a first conduction path and second conduction path (figure 6a, output of item 204 and electrical ground; paragraph 41) connected to the DC voltage supply;

a battery charging circuit (figure 6a, item 210; page 4, paragraphs 39 and 42-44) for receiving a DC voltage from the DC voltage supply via the first conduction path and the second conduction path and for charging the battery when the input DC voltage exceeds a predetermined voltage (paragraph 37); and a third conduction path comprising a unidirectional isolation device (figure 6a, item D1; page 4, paragraph 42, lines 3-5) connecting DC voltage from the first battery terminal to the DC voltage supply via the first conduction path (figure 6a).

The Peplinski third conduction path is the lead line connecting diode D1 to the battery (point 2) and the DC voltage supply (point 3).

With respect to claim 2, Peplinski further discloses an audible signaling device (figure 2, item 180; page 3, paragraph 24).

With respect to claim 3, Peplinski further discloses an apparatus (page 3, paragraph 25-26) for enabling the audible signaling device in response to current flowing from the battery to the DC voltage supply via the unidirectional isolation device.

With respect to claim 5, Peplinski further discloses the battery charging device comprises circuitry for limiting a current applied to the first battery terminal (figure 6a, item R1; page 4, paragraph 44).

With respect to claim 6, Peplinski further discloses the circuitry for limiting, limits the current to an amount less than a predetermined maximum amount (page 4, paragraph 44, lines 1-2). Peplinski discloses that the current limiting circuitry has a threshold of 380mA.

With respect to claim 7, Peplinski further discloses cut out circuitry (figure 6b, items K1, K2, S1 and S2; page 4, paragraphs 37 and 38) for disconnecting the first battery terminal from the unidirectional device.

With respect to claim 8, Peplinski further discloses cutout circuitry (figure 6b, items K1-4, S1 and S2; page 4, paragraph 38) for disconnecting the first battery terminal from the battery charging device.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Peplinski.

Peplinski discloses the battery backup apparatus of claim 10, as discussed above, and further discloses one or more visual signaling devices (page 3, paragraphs 32-33). Peplinski discloses that the battery backup apparatus can connect to the Internet and transmit fax messages to inform the user of system conditions.

6. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Peplinski, in view of Furst (US 5,844,328).

With respect to claim 9, Peplinski does not expressly disclose circuitry for selectively disconnecting the first battery terminal from the first backup port when the first backup port is disconnected from the input DC voltage.

Furst discloses a backup battery apparatus comprising a switch 72 that allows the backup battery 12 to be disconnected from the load 20 at any time desired by the user (figure 1, items 72; column 6, lines 53-64).

Peplinski and Furst are analogous because they are from the same field of endeavor, namely battery backup apparatuses that recharge during normal operation and discharge the voltage to a load when the main power source fails. At the time of the invention by applicant, it would have been obvious to combine the battery backup apparatus disclosed in Peplinski with the cutout switch disclosed in Furst in order to disconnect the battery to prevent any current discharge when the battery backup apparatus is not connected to a power source.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adi Amrany whose telephone number is (571) 272-0415. The examiner can normally be reached on weekdays, from 9am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on (571) 272-2800 x36. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


BRIAN SIRCUS
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AA

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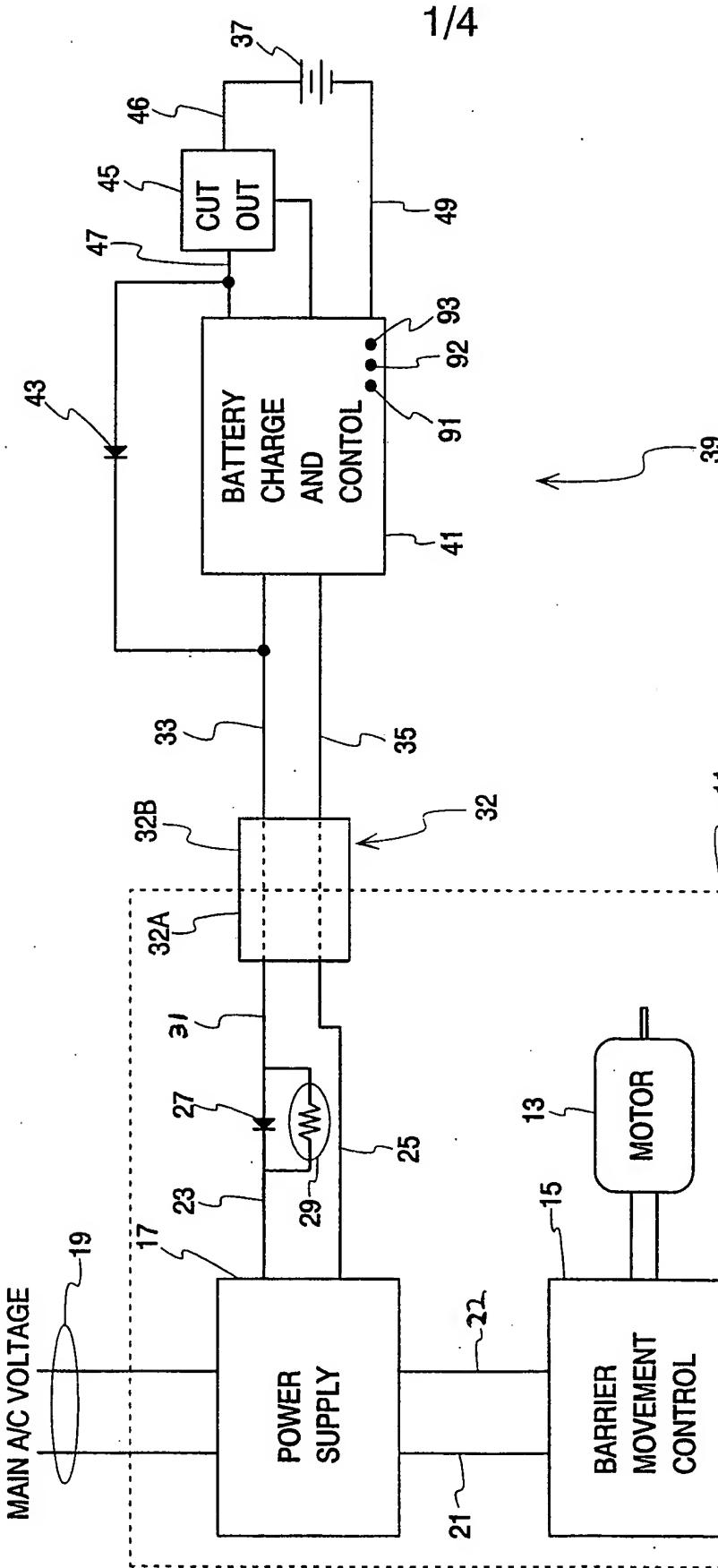


Fig. 1